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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/929,591	08/14/2001	Louis L. Hsu	728-216 (YOR9-2001-0444 U	9143
7:	590 02/04/2003			
Paul J. Farrell, Esq. DILWORTH & BARRESE LLP 333 Earle Ovington Boulevard			EXAMINER	
			NGUYEN,	NGUYEN, DANNY
Uniondale, NY	11553		· ART UNIT PAPER NUMBE	PAPER NUMBER
			2836	
			DATE MAILED: 02/04/2003	DATE MAILED: 02/04/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati n N .	Applicant(s)				
	09/929,591	HSU ET AL.	9			
Offic Action Summary	Examiner	Art Unit	مي.			
	Danny Nguyen	2836				
The MAILING DATE of this communication appears on the c ver sheet with the correspondence address Period f r Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on <u>14 A</u>	ugust 2001					
	s action is non-final.					
3) Since this application is in condition for allowa	•	osecution as to the merits is				
closed in accordance with the practice under language Disposition of Claims						
4) Claim(s) 1-22 is/are pending in the application	•					
4a) Of the above claim(s) is/are withdraw	vn from consideration.	•				
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5 and 7-22</u> is/are rejected.						
7)⊠ Claim(s) <u>6</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner						
10) ☐ The drawing(s) filed on is/are: a) ☐ accep						
Applicant may not request that any objection to the						
11) The proposed drawing correction filed on		ved by the Examiner.				
If approved, corrected drawings are required in rep	•					
12) The oath or declaration is objected to by the Exa	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents						
2. Certified copies of the priority documents						
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list of the certified copies of the prior application. 	reau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e	e) (to a provisional application).				
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domesti 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3.	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				
S. Patent and Trademark Office						

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DETAILED ACTION

Claim Objections

1. Claim 6 is objected to because of the following informalities: claim 6 depends on itself. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-5, and 12-16, 21, 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Keeth (USPN 5,946,257).

Regarding to claims 1, 2, 12, Keeth discloses an integrated circuit system (see fig. 8) having a plurality of macros (memory arrays 801(1) to 801(8)), the integrated circuit comprises an external voltage supply input (the external supply input voltage Vcc) configured to supply an external voltage to the integrated circuit; and a plurality of internal voltage supply generators (a plurality of isolated supply voltage generators 70 in fig. 1, each of isolated supply voltage comprises circuit 804 and 806, see col. 8, lines 46-53), each of the plurality of internal voltage supply generator being connected to a respective macro (memory array) of the plurality of macros and configured for receiving the external voltage via the external voltage supply input for generating an internal voltage supply for operating its respective macro, wherein each of the plurality of the internal voltage supply generators includes circuitry (1000) for generating the internal

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voltage supply and circuitry for disconnecting at least a portion of its respective macro(see col. 9, lines 60-65).

Regarding to claim 3, Keeth discloses the external voltage is greater than the internal voltage (the internal supply voltage is approximately one half of the external supply voltage Vcc, see col. 9, lines 9, line 58).

Regarding to claims 4,13, and 21 Keeth discloses a scan-chain formed by a chain of scannable register latches storing fuse information and switch enable/disable signal (see col. 4, lines 53-57).

Regarding to claims 5, 14, 15, Keeth discloses each of the plurality of internal voltage generators comprises a reference voltage generator (1004) for generating and providing a reference voltage for driving at least one voltage generator (see fig. 10).

Regarding to claim 16, Keeth discloses the at least one of the plurality of internal supply voltage generators is selected from the group of consisting of a substrate bias level voltage generator, a negative word line level voltage generator, and a boosted word line high level voltage generator (see col. 10, lines 48-50).

Regarding to claim 22, Keeth discloses a means (819) for performing a built-in self-test for testing the DC voltage generator system (see col. 3, lines 50-67).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claims 7-11, 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keeth in view of Sher et al. (USPN 6,496,027).

Regarding to claims 7-10, Keeth discloses a reference supply unit (1004) for generating at least one of a voltage level and current level; a voltage limiter (1002) coupled to the reference supply unit for controlling a voltage output level outputted from the voltage limiter; and a charge pump (capacitor, see fig. 10) for receiving voltage level for generating the internal voltage supply. Keeh does not disclose an oscillator and a feedback voltage provided from the charge pump. Sher et al. disclose an oscillator (130) and a feedback voltage (see fig. 10). It would have been obvious to one having skill in the art at the time the invention was made to modify the system of Keeth with an oscillator and a feedback voltage to produce the internal supply voltage to the memory arrays and enable the internal supply circuit to respond to a change in the voltage.

Claim 11 repeats limitations of claim 4; therefore, it is rejected accordingly.

Claims 17-20 repeat limitations of claims 7-10; therefore, they are rejected accordingly.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Danny Nguyen whose telephone number is (703)-305-5988. The examiner can normally be reached on Mon to Fri 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (703)-308-3119. The fax phone numbers

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for the organization where this application or proceeding is assigned are (703)-872-9318 for regular communications and (703)-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-308-0956.

DN January 24, 2003

BRIAN STROUS

SUPERVORT FORMINER TESTINGLESS SANTER 2000